

Amendments to the Claims

Please amend claims 1, 9-13, 15, 22-23, 26 and 32 as indicated in the listing of claims.

Please cancel claims 2-8 and 17-21.

Claims 14 and 33 were previously canceled and withdrawn, respectively.

The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently amended) ~~[[A]]~~ An enriched cell culture population of cells comprising, a human embryoid body derived (EBD) cells, wherein the cells are characterized by;
~~not causing formation of a teratoma when injected into~~ having teratogenic properties in
~~SCID mice[[,]] , and~~
~~and wherein at least some of the cells simultaneously express~~ expressing at least a first
and a second polypeptide or mRNA marker markers that are characteristic of from at least two
different cell types, wherein the cell types are selected from ectodermal cells, a mesodermal
cells, or endodermal cells, and wherein the first marker is selected from the group consisting of
nestin, vimentin, neurofilament light isoform, microtubule-associated protein 2c, tau,
nonphosphorylated neurofilament heavy isoform, neuron-specific enolase, tyrosine hydroxylase,
glial fibrillary acidic protein, CNPase, and galactocerebroside, and the second marker is selected
from the group consisting of myf-6, myosin light-chain 2 ventricular isoform, flk1, α -1-
fetoprotein, and GATA-4.

2-8. (Canceled)

9. (Currently amended). The ~~culture cells~~ of claim 1, ~~wherein that~~ under suitable cell
culture conditions ~~proliferates~~ the cells proliferate for at least thirty population doublings without
being immortal under said conditions.

10. (Currently amended) The ~~culture of claim 9~~ cells of claim 1, wherein that under suitable cell culture conditions ~~proliferates~~ the cells proliferate for at least sixty population doublings.

11. (Currently amended) The ~~culture of claim 1~~ cells of claim 1, wherein that ~~proliferates~~ the cells proliferate under ~~cell~~ suitable cell culture conditions that are nonpermissive for proliferation of human embryonic germ cells.

12. (Currently amended) The ~~culture of claim 11~~ cells of claim 1, wherein that ~~proliferates~~ the cells proliferate in a media under suitable cell culture conditions that lacks lacking leukemia inhibitory factor, a fibroblast feeder layer, or both.

13. (Currently amended) The ~~culture~~ cells of claim 1, wherein ~~said~~ the cells are transfectable with a retrovirus or a lentivirus or both.

14. (Canceled)

15. (Currently amended) The ~~culture~~ cells of claim 1, wherein that is the cells are clonal.

16. (Currently amended). The culture of claim 15, wherein that is the cells are clonally derived from a single embryoid body derived (EBD) cell.

17-21. (Canceled).

22. (Currently amended) A method of making a ~~human EBD cell culture~~ an enriched population of cells comprising:

(a) culturing ~~human embryonic germ~~ primordial germ cells under conditions that are

suitable for formation of cystic embryoid bodies,

(b) dissociating the cystic embryoid bodies to provide a constituent cell, and

(c) culturing the constituent cell under conditions suitable to produce a ~~human EBD cell culture~~ population of cells in serum, reduced serum or serum-free media and further comprising ~~at least some cells in the culture~~ which simultaneously express a first and a second polypeptide or mRNA markers marker that are is characteristic of at least two different cell types, wherein the cell types are selected from the group consisting of an ectodermal cell, a mesodermal cell, and an endodermal cell, and wherein the first marker is selected from the group consisting of nestin, vimentin, neurofilament light isoform, microtubule-associated protein 2c, tau, nonphosphorylated neurofilament heavy isoform, neuron-specific enolase, tyrosine hydroxylase, glial fibrillary acidic protein, CNPase, and galactocerebroside and the second marker is selected from the group consisting of myf-6, myosin light-chain 2 ventricular isoform, flk-1, α -1-fetoprotein and GATA-4.

23. (Currently amended) The method of claim 22 comprising selecting a single ~~EBD~~ cell from the EBD cell culture and culturing the single EBD cell to produce a clonal ~~EBD cell culture~~ population of cells.

24. (Original) The method of claim 22 comprising culturing the constituent cell in a media comprising human basic fibroblast growth factor.

25. (Previously presented) The method of claim 24 comprising culturing the constituent cell in a media selected from the group consisting of RPMI 1640 supplemented with 15% FCS and media consisting essentially of hEGF, hydrocortisone, gentamicin, amphotericin-B, fetal bovine serum, VEGF, hFGF, heparin, recombinant human IGF-1 and ascorbic acid.

26. (Currently amended) The method of claim 25 comprising culturing the constituent cell in a media consisting essentially of hEGF, hydrocortisone, gentamicin, amphotericin-B, fetal bovine serum, VEGF, hFGF, heparin, recombinant human IGF-1 and ascorbic acid.

27. (Original) The method of claim 22 comprising culturing the constituent cell on a matrix.

28. (Original) The method of claim 27 comprising culturing the constituent cell on a matrix that is selected from the group consisting of collagen I, human extracellular matrix, and tissue culture-treated plastic.

29. (Original) The method of claim 28 comprising culturing the constituent cell on a matrix selected from the group consisting of collagen I and human extracellular matrix.

30. (Original) The method of claim 22 comprising culturing the constituent cell on a media that is not permissive for proliferation of the EG cells.

31. (Original) The method of claim 30 comprising culturing the constituent cell on a media lacking leukemia inhibitory factor, a fibroblast feeder layer, or both.

32. (Currently amended) The method of claim 22 comprising culturing the ~~EBD cell~~ culture population of cells for at least 30 population doublings.

33. (Withdrawn) A method of treating a human disease or injury comprising introducing a composition comprising an EBD cell or EBD cell culture into the body of a patient having the disease or injury.